

Amendments to the Specification

Please insert the following paragraph and subtitle on the first page of the application above Background:

REFERENCE TO SEQUENCE LISTING SUBMITTED ELECTRONICALLY

The content of the electronically submitted sequence listing (Name: 09 839536.txt; Size: 1,803 bytes; and Date of Creation: October 22, 2010) filed herewith is incorporated herein by reference in its entirety.

S2
1/26/11

Please replace the paragraph at page 40, lines ¹⁰⁻²²~~10-23~~ of the application as filed with the following replacement paragraph, marked to show changes:

Plasmids used for construction of transformation vectors used to introduce glucose transporters into cells of Phaeodactylum were constructed by adding appropriate restriction sites by PCR and inserting the coding region for the transporter of interest into pPha-T1. Plasmid pGlut-Phat used primers GLUTPHAT5' (GACTGGATCCATGGAGCCCAGCAGCAAG) (SEQ ID NO:1) and GLUTPATT3' (GACTAAGCTTTCACACTTGGGAATCAGC) (SEQ ID NO:2). Plasmid pHup-Phat used primers HUPPHAT5' (GATGAATTCATGGCCGGCGGTGGTGTAG) (SEQ ID NO:3) and HUPPHAT3' (GACTAAGCTTTTACTTCATCGCCTTTGAC) (SEQ ID NO:4). Plasmid pHxt2-Phat used primers HXT2PHAT5' (GGGAATTCATTCAAGATGTCTGAGTTCGCTAGAAG) (SEQ ID NO:5) and HXT2PHAT3' (CCCCGCATGCTTATTCCTCGGAAACTCTT) (SEQ ID NO:6). Plasmid pHxt4-Phat used primers HXT4PHAT5' (GGGAATCATTCAAGATGTCTGAAGAAGCT) (SEQ ID NO:7) and HXT4PHAT3' (CCTCTAGATTACTTTTTTCCGAACATC) (SEQ ID NO:8).